

EWP(1)/ETC(m) JD/WW/DJ

ACC NR: AF5026801

SOURCE CODE: UR/0286/65/000/017/0083/0083

INVENTOR: Kaspivav, S. F., Balabanov, A. M., Krugel'skiy, I. V.,
Lashchenov, V. A.

ORG: none

TITLE: A stand for testing roller bearings, sliding bearings, and
friction couples for wear in high vacuum or in space. Class 42,
No. 174410

SOURCE: Byulleten' izobrateniy i tovarnykh znakov, no. 17, 1965, 83

TOPIC TAGS: test stand, performance test, space chamber test,
bearing, friction, vacuum chamber

ABSTRACT: This Author Certificate presents a stand for testing roller bearings, sliding bearings, and friction couples for wear in high vacuum or in space. The stand contains several spindles (each consisting of a shaft operating in a vacuum and intended for mounting the tested bearings), units for axial and radial loading of bearings, a mechanism for measuring the friction moment of the tested couples, a drive shaft with a driven gear, an electrical clutch for transmitting the torque from the drive shaft to the shaft with the tested friction couples, and the main drive shaft with a driving gear meshing with the

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UDC: 620.178.16.05:621—233.2(201)

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driven gears on the spindles. To prevent stopping all the spindles of the stand by the jamming of one of the tested couples, the driving gear is connected with the driven gears on the spindles through idler gears. The shafts of the idler gears are set in a casing which turns about the rotation axis of the drive shaft. The casing is provided with a device which permits it to turn in case of jamming and to release the idler gear from the driving gear. To prevent an accidental separation of the idler gear from the driving gear and their subsequent return to meshing position, the rotary casing may be connected to the piston of the damping power cylinder. [04]

SUB CODE: 1B/ SUBM DATE: 22Jan64/ ORIG REF: 000/ OTH REF: 000/

ATD PRESS: 4/31

Card 2/2 *Md*

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

Andreas, R. A.
"Spectral analysis of nasal consonants of German."

report submitted for 5th Intl Cong of Phonetic Sciences, Muenster, W. Germany,
16-23 Aug 64.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

KASPRIK, Bedrich, inz. (Ostrava)

Experience with operation and design of heating furnaces of
rolling mills in people's democracies. Hut listy 16 no.2:108-
113 F '61.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

KASPROWICZ, B.

Jozef Krynicki's Problemy Handlu zagranicznego Polski (Problems of Poland's Foreign Trade); a book review. p. 371

TECHNIKA I GOSPODARKA MORSKA. (Naczelnna Organizacja Techniciana, Instytut Morski i Morski Institut Rybacki) Gdansk, Poland, Vol. 8, no. 12, Dec. 1958

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 8, August, 1959

Uncl.

Kasprovski, E.

DIMITRIU, C. C., Prof.; SCHACHTER, A., dr.; DECEBAL, Colita, dr.;
KASPROVSKI, E., dr.; SEGAL, U., dr.

Results of Rauwolfia serpentina alkaloid (serpasil) therapy of
hypertensive diseases. Med. int., Bucur. 7 no.4:104-111 Oct-
Dec 55.

(HYPERTENSION, therapy
reserpine)

(RESESPINE, ther. use
hypertension)

KASPROVSKIY, B.P.

MEDICAL PERSONNEL

"Towards Improving the Qualifications of Workers in Sanitary Epidemiological Stations", by Sanitary Physicians Assistant B.P. Kasprovskiy, Fel'dsher i Akusherka, No 4, April 1957, p 63.

In a letter to the editor, the author says that, in Khmel'nitskaya Oblast, sanitary fel'dshers are over burdened with sanitary and epidemiological work. Practically speaking, they are the immediate assistants to sanitary physicians and physicians-epidemiologists, and their duties are usually performed by intermediate medical personnel.

According to the author, such personnel have difficulties in solving sanitary and epidemiological problems, because of the lack of both textbooks and expedient courses. He suggests that special sanitary and epidemiological courses should be organized on the basis of medical schools to fit the intermediate medical personnel and to heighten their qualifications.

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- 45 -

KASPROWICZ, B.

KASPROWICZ, B. Jerzy Raminger's Rzecznikstwo i kontrola ladunkow w transporcie morskim (Expertness and Control of the Loading of a Ship's Cargo): a book review. p. 333. Vol. 6. no. 12, Dec. 1956. TECHNIKA I GOSPODARKA MORSKA. Gdansk Poland

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

KASPROWICZ, B., prof., dr. (Sopot)

Technology and economics against transportation economics. Tech gosp
morska 11 no.4:100-103 '61.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

GASPROWICZ, Boleslaw, prof. dr

Twenty years of the College of Economics in Sopot. Tech gosp
morska 13 no.5±133-135 My '63.

1. Rektor Wyższej Szkoły Ekonomicznej, Sopot.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

KASPROWICZ, Janusz

Ways of collaboration. Przegl techn 85 no.15:4 12 Ap'64.

1. Przewodniczacy Zarzadu Głównego Zjednoczenia Zawodowego
Metalowcow.

KASPROWICZ, Włodzimierz

Some observations on the work of a clinical psychologist.
Neurol. neurochir. Psychiatr. pol. 13 no.4:547-550 '63.

1. Z Oddziału psychiatrii rozwojowej Szpitala Psychiatrycznego
w Lublinie Ordynator: doc. dr J. Krasowska.
(PSYCHOLOGY, CLINICAL)

CWYNAR, St.; SIEDLICKA, J.; KLASOWSKA, J.; KOWALCZUK, Wl.; CHLOPICKI, K.;
WOJAKOWSKI, A.; MATIAS, K.; RESPOND, J.; KASPROWICZ, Wl.

Blood clotting time as a directional index of the dynamics of nervous
processes in various forms of schizophrenia, epilepsy & mental deficiency.
Neur. &c. polska 7 no.6:877-893 Nov-Dec 57.

1. Zespół Kliniki Psychiatrycznej Sz. A. M. w Lublinie. Kierownik:
prof. dr St. Cwynar. Klinika Psychiatryczna Śląskiej Akademii Medycznej,
Lubliniec u. Grunwaldzka 48.

(SCHIZOPHRENIA, blood in
clotting time, diag. value of determ. (Pol))

(EPILEPSY, blood in
same)

(MENTAL DEFICIENCY, blood in
same)

(BLOOD COAGULATION, determ.
clotting time in schizophrenia, epilepsy & ment. defic.,
diag. value (Pol))

FRYSZMAN, Andrzej; KASPROWICZ, Z.; NESTERUK, Konr. inty

Low-heating-power cathodes for oscilloscope and
kinescope tubes and vidicons. Przegl. elektroniki
3 no.11:665-666 N '62.

1. Przemyslowy Instytut Elektroniki, Warszawa.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

dynamic pressure, liquid flow, gas flow

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CIA-RDP86-00513R000721030006-2"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

in a vertical pipe in a suspended state.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

KASPRYZK, S.

AGRICULTURE

Periodicals: LAS POLSKI, Vol. 31, No. 23, December 1957

LASPRYZK, S. It is worthwhile to visit the Arboretum of Kornik. P. 10.

Monthly List of East European Accessions (EWAT) LC, Vol. 8, No. 2,
February 1959, Unclass.

KASPRZAK, A., mgr inz.

Radar in Polish harbors. Tech gosp morska 10 no.11:347-350 N '60.
(EEAI 10:3)

1. Zarząd Portu Gdańsk
(Poland--Harbors) (Poland--Radar)

KASPRZAK, Boguslaw, inz.

Inobservance of the rules of operation causes many accidents.
Energetyka Pol 14 no.9:294 S '60. (EEAI 10:1)

1. Zaklady Energetyczne Okregu Zachodniego.
(Electrical engineering)

KASPRZAK, E.; SERAFINOWICZ, H.

Tuberculosis in calves. Med.wet. 6 no.1:9-12 Ja '50. (CLML 19:2)

1. Of the Institute of Microbiology and Epizoolgy, Veterinary Department, University imeni Marie-Curie-Sklodowska in Lublin (Head -- Prof. Josef Parnas, M.D.).

KASPRZAK, E; PIENIAZEK, J; SERAFINOWICZ, H.

Tularemia; an occupational zoonotic disease. Med. wet.
6 no.6:345-349 June 1950. (CIML 20:1)

1. Of the Institute of Epizootiology of the Veterinary
Department of the University imienia Marie Curie-Sklodowska
in Lublin and of the Research Center for Zoonotic Diseases in
Lublin (Head—Prof. Josef Parnas, M. D.).

KASPRZAK, Janina; KNAPIK, Zbigniew; PACZYNSKI, Andrzej

Correlation between the appearance of atherosclerosis of the coronary vessels and arteries of the extremities. Polskie arch. med. wewn. 30 no.7:889-891 '60.

1. Z Oddzialu Wewnetrznego A Szpitala Wojewodzkiego we Wrocławiu
Oddział S.D.L. Kierownik: prof. dr med. J. Kaniak
(ARTERIOSCLEROSIS statist)
(CORONARY DISEASE statist)

KASPRZAK, L.

KASPRZAK, U.
Surname (in caps); Given Name

Country: Poland

Academic Degree: [not given]
Laboratory of Pharmacodynamics, School of Medicine (Pracownia Farmakodynamiki), Poznan and Department of Animal Physiology, Adam Mickiewicz University, (Zaklad Fizjologii Zwierząt Uniwersytetu im. Adama Mickiewicza Poznań), Poznan
Source: Warsaw, Przegląd Lekarski, No 5, 1961, pp 197-198.
Date: "Activity of Respiratory Enzymes of the Succinic Oxidase Series in Experimental Iron Deficiency Anemia." (Abstract)

Co-authors:

KASPRZAK, L.
OBUCHOWICZ, L.

MICHEJDA, Jan, doc. dr; KASPRZAK, Leokadia, M.Sc.; OBUCHOWICZ,
Ludwik, dr; ZEREĆ, Teresa, M.Sc.

Respiratory metabolism in the snail, *Helix pomatia*.
Pt. 3. Sciences biol Biul Poznan no.4:115-134 '64.

1. Department of Animal Physiology, A. Mickiewicz University,
Poznan.

PRUSZYNKI, J.; GEBICKI, L.; TKACZEWSKI,W.; KASPRZAK, M.; BARCIKOWSKI, S.

Starr-Edwards prothesis for mitral incompetence. I. Clinical
evaluation. Kardiol. Pol. 8 no.1:9-13 '65

l. Z II Kliniki Chirurgicznej (Kierownik: prof. dr. J.Pruszynski)
i z III Kliniki Chorob Wewnetrznych Wojskowej Akademii Medycznej
w Lodzi (Kierownik: prof. dr. A. Himmel).

PRUSZYNSKI, J.; KASPRZAK, M.; PARCIKOWSKI, S.; WLAZINSKI, J.; HANKIEWICZ, M.;
BOLEWSKA, M.; GEBICKI, I.; TKACZEWSKI, W.

Starr-Edwards prothesis for mitral incompetence. II. The surgical
technic. Kardiol. Pol. 8 no.1:15-17 '65

1. Z II Kliniki Chirurgicznej (Kierownik: prof. dr. J. Pruszyński)
i z III Kliniki Chorob Wewnętrznych Wojskowej Akademii Medycznej w
Łodzi (Kierownik: prof. dr. A. Hirsel).

KASPRZAK, Miroslaw.

Importance of arteriography in diagnosis of peripheral vascular diseases. Polski przegl.chir. 27 no.9:845-847 Sept '55.

1. 2 III Kliniki Chirurgicznej A M w Lodz. (VASCULAR DISEASES, PERIPHERAL, diagnosis arteriography) (ANGIOGRAPHY arteriography in diag. of peripheral vasc.dis.)

KASPERZAK, Miroslaw

Thrombectomy in a case of femoral arteriosclerosis obliterans.
Wiadomosci lek. 7 no.5:265-268 Apr. 54.

1. Z III Kliniki Chirurgicznej Akademii Medycznej w Lodz. i.
Z Przychodni Chorob Naczyń Obwodowych, Ambulatorium P.S.K. w Lodz. i.
Kierownik: prof. dr med. W.Tomaszewicz.

(ARTERIOSCLEROSIS,
obliterans of femoral artery, thrombectomy)
(ARTERIES, FEMORAL, diseases,
arteriosclerosis obliterans, thrombectomy)

KASPRZAK, M.

The prosthetic mitral valve. Kardiol. Pol. 8 no.1:5-7 '65

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Lodzi
(Kierownik: prof. dr. J. Pruszyński).

KASPRZYK, Stefan, mgr., inz.; BARTOSZEWCZ, Janusz, mgr., inz.; FICKI,
Aleksander, mgr., inz.

Heating networks with La Mont boilers in the light of practical
experience. Energetyka przem 10 no.2:41-47 '62.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

KASPRZAK, Tadeusz

Application of J. Neumann's model in the analysis of economic growth.
Przegl statyst 9 no.1:41-56 '62.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

KASPREK, W.

Evaluation of this year's harvest by the grain inspection.

P. 1. (PRZEGLAD ZBOZOWO-MLYNARSKI) (Warszawa, Poland) Vol. 1, no. 8, Nov. 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

CIESLAR, Boguslaw, mgr., inz., adiunkt; KASPRZAK, Waclaw, mgr., inz.,
starszy asystent

Measurement of tensions with small basis tensometers. Mechanika
Wroclaw 6 no.43:109-127 '61.

1. Katedra Mechaniki Technicznej Politechniki Wroclawskiej.

KASPRZAK, Waclaw, dr inz.

Problem of strength formation of construction elements with a notch.
Przegl mech 22 no.1:7-8 10 Ja '63.

1. Politechnika, Wroclaw.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

KASPRZAK, Witold; PAWLOWSKI, Zbigniew

Laboratory detection of intestinal parasites in man. Wiadomosci lek.

8 no.1:20-25 Jan 55

(HELMINTH INFECTIONS, diagnosis,
laboratory)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

KASPRZAK, Witold (Poznan)

Preliminary investigations on Entamoeba histolytica in the Poznan
region. Wiadomosci parazyt., Warsz. 2 no. 5 Suppl:35-36 1956.

1. Katedra Biologii Ogolnej AM.
(AMOEBA,
types isolated in Poland (Pol))

KASPRZAK, WITOLD

GERWEL, Czeslaw; KASPRZAK, Witold; PAWLOSKI, Zbigniew

Survey of invasions of the alimentary tract in the rural population of the Poznan district. Wiadomosci parazyt., Warsz. 3 no.1:3-10 1957.

1. Z Katedry Biologii Ogolnej Akademii Medycznej w Poznaniu.
(PARASITIC DISEASES, epidemiol.
intestinal, in Poland (Pol))
(INTESTINES, dis.
parasitic, epidemiol. in Poland (Pol))

GERWEL, Czeslaw; KARLEWICZOWA, Romana; KASPRZAK, Witold;
RYDZEWSKI, Aleksander

Parasitic fauna of the alimentary tract in the rural population
of the Mazury lake district. Wiadomosci parazyt., Warsz. 3 no.1:
11-17 1957.

1. Z Katedry Biologii Ogolnej Akademii Medycznej w Poznaniu.
(PARASITIC DISEASES, epidemiol.
intestinal, in Poland (Pol))
(INTESTINES, dis.
parasitic, epidemiol. in Poland (Pol))

KASPRZAK, Witold; KARLEWICZOWA, Romana

Intestinal Protozoa in children and adolescents in child home in Poznan.
Wiadomosci parazyt., Warsz. 4 no.5-6:501-502; Engl. transl. 502 1958.

1. Z Zakladu Biologii Ogolnej Akademii Medycznej w Poznaniu.
(INTESTINES, microbiology,
Protozoa in child. & adolescents (Pol))
(PROTOZOA,
intestinal in child. & adolescents (Pol))

KASPRZAK, Witold

Biological characteristics of the strains of *Entamoeba histolytica* from the carriers in Poznan Palatinate. Acta parasit Pol 9 no.10/21: 211-230 '61.

1. Department of General Biology, Medical Academy of Poznan. Head: Gerwel, Czeslaw, prof., dr.

KASPERAK, Wloda; KARŁEWSZCZOWA, Romana

Laboratory diagnosis of protozoa of the alimentary tract. Wiad.
parazyti. 10 no. 420-422 '64.

The intestinal protozoa of children and adolescents of Poznan.
II, Ibid.:423-425.

I. Katedra Biologii i Parazytologii Lekarskiej Akademii Medycznej, Poznan.

KASPRZAK, Witold

The behavior of in vitro cultures of intestinal protozoa. Wlad.
parazyt. 10 no. 4:225-227 '64

1. Katedra Biologii i Parazytologii Lekarskiej Akademii Medycznej,
Poznan.

KASPRZAK, Witold

Diagnosis of Protozoa in the alimentary tract. Wiad. parazyt.
11 no.1:116-120 '65.

1. Katedra Biologii i Parazytologii Lekarskiej Akademii
Medycznej, Poznan.

KUSTEZYCKI, Anatol; KASPRZAKOWA, Janina; RZUCIDLO, Zbigniew

Persistent common atrioventricular canal in a 21 year-old woman. Polski
tygod. lek. 13 no.9:311-314 3 Mar 58.

1. (Z II Kliniki Chirurgicznej A.M. we Wrocławiu, kier. prof. dr med.
W. Gross, z Zakładu Interny I.D. i S.K.L. Oddziału we Wrocławiu na bazie
Szpitala Wojewódzkiego; kier doc. dr med. J. Kaniak i Zakładu Anatomii
Patologicznej A.M. we Wrocławiu; kier. prof. dr med. Z. Albert) Wrocław
12, ul. Olszowskiego 94/6.

(CARDIAC SEPTUM, abnorm.

persistent common atrioventricular canal in woman (Pol))

KANIĄK, Józef; KASPRZAKOWA, Janina; KNAPIK, Zbigniew; PACZYŃSKI, Andrzej.

Remote results of insulin therapy of peripheral vascular diseases.
Polakie arch. med. wewn. 28 no.5:783-786 1958.

1. Z Zakładu Interny Instytutu Doskonalenia i Specjalizacji Kadra Lekarskich we Wrocławiu na bazie Szpitala Wojewódzkiego im. J. Babiskiego we Wrocławiu Kierownik: prof. dr med. J. Kaniak. Adres autora:
Wrocław, 9 ul. Szymanowskiego 1.

(VASCULAR DISEASES, PERIPHERAL, ther.
insulin, remote results (Pol))
(INSULIN, ther use
peripheral vasc. dis., remote results (Pol))

KANIAK, Jozef; KASPRZAKOWA, Janina; KNAPIK, Zbigniew

Treatment of peripheral vascular diseases with drugs acting on the nervous system. Polskie arch.med. wewn. 28 no.5:800-803 1958.

1. Z Zakladu Interny Instytutu Doskonalenia i Specjalizacji Kadr Lekarskich we Wrocławiu na bazie Szpitala Wojewodzkiego im. J.Babinskiego Kierownik: prof. dr med. J. Kaniak. Adres autora: Wrocław, ul. Szymowskiego 1.

(VASCULAR DISEASES, PERIPHERAL, ther.
chlorpromazine, reserpine & tetraethylammonium (Pol))

(CHLORPROMAZINE, ther. use
peripheral vasc. dis., alone & with reserpine & tetraethylammonium (Pol))

(RESERPINE, ther. use
peripheral vasc. dis., alone & with chlorpromazine
& tetraethylammonium (Pol))

(TETRAETHYLAMMONIUM, ther. use
peripheral vasc. dis., alone & with chlorpromazine
& tetraethylammonium (Pol))

(TETRAETHYLAMMONIUM, ther. use
peripheral vasc. dis., alone & with chlorpromazine
reserpine (Pol))

KASPRZHAK, G. M.

USSR/Electronics
Servomechanisms
Regulators

"Low-Power, Asynchronous, Short-Circuited, Regulated
Machines," G. M. Kasprzhak, Cand Tech Sci, Moscow
Higher Mech School imeni Bauman, 4 pp

"Elektrichestvo" No 2

Theoretical discussion of small servomotors. Dis-
cusses methods of regulation, and regulating and
braking characteristics. Submitted 2 Jun 48.

Feb 49

40/49T34

PA 153139

KASPRZHAK, G. M.

USSR/Engineering - Motors, Induction Nov 49

"Calculation of the Working Parameters of Induction Micromotors," G. M. Kasprzhak, Cand Tech Sci, Moscow Higher Tech School imeni Baumana, 3 pp

"Elektricheskvo" No 11

Method is based on using arbitrary calculated resistances whose introduction into formulas approximating the usual ones gives considerably greater accuracy in many cases. Numerical example shows necessity for greater accuracy of author's method when designing small

USSR/Engineering - Motors, Induction Nov 49
(Contd)

induction motors, especially under braking conditions. Includes four diagrams.

153139

153139

KASPRZHAK, G. M.

178T26

USSR/Electricity - Motors, Induction
Wind Tunnels

Dec 50

"Asymmetrical Regulation of Induction Motors for
Drives With a Blower Load," G. M. Kasprzhak, Cand
Tech Sci, Z. M. Persits, Engr, Moscow

"Elektrichestvo" No 12, pp 25-32

Analyzes 2 asym regulation circuits for 2-phase in-
duction motors with slip rings for wind-tunnel drives.
Gives results in universal dimensionless relations
expressing regulation and load properties of drives
with the so-called ventilator static torque. These
circuits were devised by authors in 1947-1948 at
Aerodynamics Lab, Moscow State U. Submitted 6 Feb 50.

178T26

KASPRZHAK, G.M.

USSR/Engineering - Welding, Automatic Control Jan 52

"Structural Classification and Comparative Analysis
of the Systems for Automatic Regulation of Electric
Arc Welding Process," G. M. Kasprzhak, V. M. Shchitova

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 11, pp 41-66
Discusses principles of classification of methods for
automatic regulation of elec power parameters in weld-
ing process and defines all structurally different
classes, groups and types of simple and complex sys-
tems. Presents generalized schematic diagram which
depicts all methods for automatic regulation of welding
with fusible and infusible electrodes. Submitted
by Acad V. P. Nikitin 19 Apr 51.

219T33

KASPRZHAK, G.M.; SHCHITOVA, V.M.

Structure classification and comparative analysis of methods of automatic regulation of the arc welding process. Trudy Sekts. po nanch. razrab. probl. elektrosv. i elektroterm. AN SSSR no.1:31 '53. (MLRA 6:9)
(Electric welding)

"APPROVED FOR RELEASE: 06/13/2000

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Design of the model proposed by the author is based on the fact that
system of control of arc welding is constructed for the general
case. Concessions are given for the specific clients of the firm, which
make up only a small percentage of the total.

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CIA-RDP86-00513R000721030006-2"

KASPRZHAK G. M.

Kasprzhak G. M. and Shchitova V. M., "Certain Methods of Studying Linear Systems in Structural Diagrams," Traktaty Sektsii po nauchnoy razrabotke problem elektrosvarki i elektrotermii [Treatises of the Section on Scientific Solution of Problems of Electrowelding and Electrothermics], No 1, Moscow, Academy of Sciences, USSR, 1953, Pages 57-68, 2 figures, 6 tables; bibliography, 7 items.

KASPRZHAK G. M.

Kasprzhak G. M. and Alekin L. Ye., "Structure and Analysis Technique for the Process of Auto-Regulation of the Arc in Welding," Traktaty Sektsii po nauchnoy razrabotke problem elektrosvarki i elektrotetemii [Treatises of the Section on Scientific Solution of Problems of Electro-welding and Electrothermy], No 1, Moscow, USSR Academy of Sciences. 1953, Pages 68-89, 3 figures, 3 tables; bibliography, 6 items.

KASPRZHAK G. M.

Shchitova V. M. and Kasprzhak G. M., "Hook-up for Automatic Regulation
of a Welding Arc with an Electro-mechanical Amplifier," Avtogennoe
Delo [Autogenous Matters], 1953, No 4, Pages 10-12, 5 figures.

KASPRZHAK, G.M.

Electrical Engineering Abst.
Vol. 57 No. 675
Mar. 1954
Mechanical and Civil Engineering Technology

621.791.75 : 621.316.72

1316. Problems in the theory of self-regulation in welding with consumable electrodes. G. M. KASPRZHAK AND L. E. ALEKIN. *Elektrichestvo*, 1953, No. 5, 41-9. In Russian.

The mechanism of arc self-regulation in welding with a consumable metal electrode and with independent rate of feed of the electrode wire is described. The analysis and calculation of this kind of automatic regulation is explained. The concepts of amplification factors and time constants of the links and circuits of the system of self-regulation are introduced and expressions are found for the transmission functions of the system for supply system disturbances. Recommendations are made for improvements in the self-regulation process. The practical value of the method is shown on a practical example and experimental data illustrate its accuracy. Analysis of the regulation process shows that it is not purely astatic, but is essentially both a current and voltage regulating process. The effect of supply voltage variations on weld irregularities and of the transient processes on weld quality are investigated theoretically and compared with experimental data. B. F. KRAUST

KASPRZHAK, G.M.

Method of calculating the effect of errors in regulating upon the
geometric dimensions of welded seams. Avtom.svar. 6 no.2:15-34 Mr-Ap '53.
(MLRA 7:5)

1. Sektsiya elektrosvarki i elektrotermii Akademii nauk SSSR.
(Electric welding)

KASPRZHAK, G.M.

On some shortcomings of the rules concerning the arrangement of electric apparatus for electric welding. Avtom.svar. 6 no.6:74-77 N-D '53.
(MIRA 8:4)

1. Sektsiya elektrosvarki i elektrotermii Akademii nauk SSSR.
(Electric welding)

1. SHCHITOVA, V.M.; KASPRZHAK, G.M.
 2. USSR (600)
 4. Electric Welding
 7. Scheme for the automatic regulation of a welding arc with an electric amplifier,
V.M. Shchitova, G.M. Kasprzhak, Avtorg.delo 24 no. 4, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Unc1.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

KASPRZHAK G. M.

Kasprzhak G. M., "Technique of Computing the Effect of Regulation Errors
on the Geometric Dimensions of Welding Seams," Avtomaticheskaya svarka
[Automatic Welding], Volume XXIX, No 2, Kiev, Academy of Science,
Ukrainian SSR, 1953, Pages 15-34, 10 figures; bibliography, 10 items.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

SOV/112-57-9-18793

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9,
pp 107-108 (USSR)

AUTHOR: Kasprzhak, G. M., Maslennikov, L. V.

TITLE: Single-Phase Braking of a Wound-Rotor 3-Phase Induction Motor
(Odnofaznoye tormozheniye trekhfaznykh asinkhronnykh elektrodvigateley s
faznym rotorom)

PERIODICAL: Sb. statey Vses. zaoch. politekhn. in-ta, 1956, Nr 14, pp 98-114

ABSTRACT: Methods of mathematical analysis are presented for examining
induction-motor characteristics in a single-phase braking scheme. A compari-
son of calculated and experimental data is presented. This study was made with
a view to its application to MT series motors.

V.S.M.

Card 1/1

KASPRZHAK, G. M. (Moskva); SLEPUSHKIN, Ye. I. (Moskva)

Determination of initial parameters and characteristic dimensions
for designing two-phase miniature machines. Avtom. i. telem. 17
no.7:637-647 Jl '56. (MLRA 9:10)

(Servomechanisms)

KASPRZHAK, G.M. (Moskva); SLEPUSHKIN, Ye.I. (Moskva)

Calculating the operating characteristics of two-phase servomotors
and of tachogenerators [with English summary in insert]. Avtom.i
telem. 17 no.9:811-827 S '56. (MLRA 9:11)
(Servomechanisms)

KASPRZHAK, G.M.; kandidat tekhnicheskikh nauk.; NIKOLAYEV, A.V., inzhener.

Stage compensation of changes in network voltage during automatic
arc welding. Vest. elektroprom. 27 no. 4:42-47 Ap '56. (MIRA 9:11)

1. Akademiya nauk SSSR.
(Voltage regulators) (Electric welding)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

KASPRZAK, G. M. and RABINOVICH, I. Ya. (Candidates of Technical Sciences) and
SLEPUSHKINA, Ye. I. (Engr.)

"Direct Current Power Sources with Universal Characteristics for Arc
Welding."

"paper presented at All-Union Scientific-Technical Conference on Welding in
Shielding Gases, Leningrad, Dec 1957.

(Svarochnoye Proizvodstvo, 1958, No. 4, pp 46-47 - author Tyul'kov, M. D.)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

KASPRZHAK, G.M.
USSR/Welding
Kasprzhak, G.M., Candidate of Technical Sciences, and Debrushin,
M.Sh., Engineer.
The Problem of Switching-Off Welding Transformers during Idle
Run. (K voprosu ob otklyuchenii svarochnykh transformatorov pri
khelosten khode).
PERIODICAL: "Svarechnye Proizvodstva", 1957, # 6, pp 24-26 (USSR)
ABSTRACT: The authors question the expediency of systems for switching
off welding transformers for the duration of idle interval during
work. Though there are many such systems in existence and there
are descriptions of them (3) (4), they are not widely used and there
they are not being produced. Many technicians continue to work on the electrical industry.
of suggestions is growing, but no technical and economic analy-
sis of this actually simple problem has yet been made and the
question remains open.
One of the most successful transformer switch-off systems (which
is shown in diagram in the article) has been developed by
"TsNILEPS".

Card 1/2

135-6-10/13

TITLE: The Problem of Switching-Off Welding Transformers during Idle Run. (K vepresu ob etklyuchenii svarochnykh transformatorov pri kholestem khede).

The authors consider as impractical the application of such special devices, since their initial cost is relatively high - nearly 12 times higher than of the static condensers - and with the electricity rates for industry of 8 kopeks/kwh, the amortization would take nearly 27 years, even if repair and operating costs were not taken into account. The use of switch-off systems with the purpose of increasing power coefficient, and safety, would be inexpedient as well.

The article contains 2 electrical diagrams and 11 bibliographic references (all of which are Russian).

ASSOCIATION: Laboratoriya elektricheskikh svarochnykh mashin AN SSSR
(Electric Welding Machines Laboratory USSR Academy of Sciences).

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

KASPRZHAK, G.N., kandidat tekhnicheskikh nauk; SLEPUSHKIN, Ye.I., inzhener.

New welding generator designs and their use for welding in
protective atmospheres. Avtom.svar. 10 no.3:97-104 Ky-Je '57.
(MERA 10:8)

(Electric welding--Equipment and supplies)
(Protective atmospheres)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

DHSPLH41, GPO

ZOLOTYKH, B.N.; KASPRZHAK, G.M.; KONDRATENKO, V.N.; KRUGLOV, A.I.; RABINOVICH,
I.Ya.; SLEPUSHKIN, Ye.I.; CHETVERIKOV, S.S.

"Using electric erosion method in machining metals" by A.L. Livshchits.
Reviewed by B.N. Zolotykh and others. Izv. AN SSSR.
Otd. tekhn. nauk no.2:163-165 F '58. (MIRA 11:3)
(Metal cutting, Electric)
(Livshchits, A.L.)

AUTHOR : Kasprzhak, G. M., Candidate of
Technical Sciences

SOV/105-58-9-8/34

TITLE: Computation of Voltage Drop at the Terminals of High-Power
Consumers With High Starting Amperages (Raschet snizheniya
napryazheniya na zazhimakh moshchnykh tokopriyemnikov s bol'shimi
puskovymi tokami)

PERIODICAL: Elektrichestvo, 1958, Nr 9, pp 39 - 42 (USSR)

ABSTRACT: When squirrel-cage induction motors are started or when
the secondary winding of welding transformers are short-
circuited, which are both fed from a relatively weak
supply system, the error in the computation of the
voltage drop may reach 20 - 30%, in certain cases even 100%.
This error may be due to two causes: 1) A very small power factor
during starting (not better than 0,15 - 0,2). Hence the
approximation formula (1) is only of little use. 2) The
maximum of voltage drop does not occur at a short-circuiting, but
at operation schedules which are primarily determined by
the phase angle. In this paper, first the variation of the
load current I of induction motors and of welding trans-
formers and the voltage drop in their supply lines are in-

Card 1/4

Computation of Voltage Drop at the Terminals of
High-Power Consumers With High Starting Amperages

SOV/105-58-9-8/34

vestigated at operating schedules varying from short-circuit (starting) to idling. Subsequently the conditions for the occurrence of the maximum voltage loss are determined analytically. It appears that if the work's supply system represents a purely ohmic resistance, which is a frequent case in practice, the maximum voltage loss during the starting of induction motors will be found at a slip equal to the critical slip. If a welding transformer is supplied from such a system the maximum voltage drop will not occur at an operational short-circuit but when connecting the transformer. If information bearing on the operation schedule of such consumers which leads to a maximum voltage drop is available, and if the formula for the maximum voltage drop is used, this makes possible a computation of supply systems in conformity with the stipulated power losses. No simple formula, however, can be obtained by this method. Hence the formulae (5b) and (6a) must be used and a family of universally applicable curves must be constructed. If an approximation formula is required it can be obtained by substituting the condition

Card 2/4

Computation of Voltage Drop at the Terminals of
High-Power Consumers With High Starting Amperages

SOV/105-58-9-8/34

for the occurrence of a maximum (7) into equation (5b). Under certain conditions this formula can still be simplified, yielding formula (9). The formulae presented in this paper can be used in approximative computations. The maximum error is admissible in systems with a purely ohmic resistance. In supply systems with a purely inductive resistance this method gives no increase of accuracy. Sample problems, the computation of which is given, are attached. They validate the necessity of using this method in low-voltage works supply systems for the computation of voltage drops. There are 5 figures, 1 table, and 6 references, 6 of which are Soviet.

ASSOCIATION: TsNIL elektricheskoy obrabotki materialov AN SSSR (Central Scientific Research Laboratory of Electric Processing of Materials, AS USSR)

SUBMITTED: Card 3/4 January 7, 1958

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

Computation of Voltage Drop at the Terminals of
High-Power Consumers With High Starting Amperages

SOV/105-58-9-8/34

Card 4/4

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

KHALIZEV, Georgiy Petrovich; KASPRZHAK, G.M., kand. tekhn. nauk, otd.
red.; SAGITULLINA, R.I., tekhn. red.

[Automatic control and regulation of electric drives. Avtomatiches-
koe upravlenie i regulirovanie elektroprivodami. Moskva, Ugletekh-
izdat. Lecture 4. [Contactor-type relay control of electric drives]
Elektro-kontaktornoe upravlenie elektroprivodami; obshchie prin-
tsypy. 1959. 27 p. (MIRA 14:6)
(Electric driving) (Automatic control)

KA S P R N h A K, G.M.

28(1) PHASE I BOOK EXPLOITATION SOV/2156
 Sovzachinanie po kompleksnoy mehanizatsii i avtomatizatsii tsvetnoi metalurgicheskikh protsessov.
 2nd, 1956.

Avtomatzatsiya maschinostroitel'nym protsessov; /frantsuzskaya/ tom 1; Doryachaya obrabotka metalla. Conference on Over-all Mechanization and Building Processes; Proceedings of the Technical Process, Vol. 1: Hot Metal-Forming (Metal-Forming) Moscow, 1959. 356 p. 5,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinostroyeniya. Komissiya po tekhnologii mashinostroyeniya.
 Ed.: V.I. Dikushin, Academician; Compiler: V.M. Raskutov; Ed. of Publishing House: V.A. Kotov; Tech. Ed.: T.Y. Kita-shin.
 Purpose: The book is intended for mechanical engineers and metallurgists.

COVERAGE: The transactions of the Second Conference on the Over-all Mechanization and Automation of Industrial Processes on September 26-29, 1956, have been published in three volumes. This book, Vol. 1, contains articles under the general title "Hot Working of Metals". The investigations described in this book were conducted by the Sections for Automation and Hot Working of Metals under the direction of the following scientists: casting - P.M. Akenenko, D.P. Ivanov and G.M. Onloly; forming - A.D. Tomilov and V.T. Peschchenko; welding - G.I. Belikov, B.I. Prolov and G.A. Maslov. There are 103 references; 142 Soviet, 34 English, 6 German, and 1 French.

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AVAILABLE: Library of Congress

Card 8/B

SOV/2159
9/25/59 (1)

SIROTIN, Artemiy Afanas'yevich; BARASHIN, A.V., prof., retsentent;
KHALIZEV, G.P., dotsent, retsentent; KASPEZHAK, G.M., dotsent,
retsentent; BYCHKOV, V.P., dotsent, red.; VORONIN, K.P.,
tekhn.red.

[Automatic control of electric driving equipment] Avtomaticheskoe
upravlenie elektroprivodami. Moskva, Gos.energ.isd-vo, 1959.
526 p.

(Electric driving) (Automatic control) (MIRA 12:3)

67425

SOV/105-59-12-12/23

8 (3) 16,9500
AUTHORS:Kasprzhak, G. M., Candidate of
Technical Sciences, Orkina, Ye. L., Engineer

TITLE:

Transition Processes in D.C.-Control Circuits Fed From
Semiconductor Triodes

PERIODICAL:

Elektrichestvo, 1959, Nr 12, pp 55-61 (USSR)

ABSTRACT:

The transition processes in output cascades of d.c.-amplifiers, used for feeding control circuits of industrial installations, are studied here. According to theoretical and experimental results, the nonlinearity of the output resistance of the triodes causes a peculiar course of the transition processes in inductive circuits fed by semiconductor triodes. The qualitative part of the phenomena in the transition processes in these circuits is illustrated by static characteristics (Fig 2). Still, the actual static characteristics are inconvenient for the study of the transition processes. Therefore it is more practical to use idealized characteristics. These form a rather accurate approximation, as can be seen in the comparison of the curves in figures 2a and 2b. By using these idealized, broken static triode characteristics (Fig 2b) and the parameter ΔU of the output circuit of the triode, the

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Transition Processes in D.C.-Control Circuits Fed
From Semiconductor Triodes

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transition processes can be studied in sections like linear processes. It is shown that the output equivalent circuit diagram can be transformed into a quite simple series circuit with an active resistance of $r + R_{load}$ and inductivity L_{load} , which is then used for calculating the transition process. The transition processes in four possible cases are examined (Fig 2). In all 4 cases the nonlinear change of the self-induction-emf shows a nonexponential change of triode current, and triode voltage. The rate of current and voltage changes is not determined in the inductive circuit with the triode by the static but by the dynamical triode resistance. The rate of the current change in the transition process does not depend alone on the load- and triode resistance, but also on the feed voltage. In the initial and final section of the static characteristic the transition processes can end much faster than in linear circuits with the same time constant. A peculiar acceleration of the transition process occurs. Another important feature of the transition process in inductive circuits with triodes is the increase of the voltage at the

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Transition Processes in D.C.-Control Circuits Fed
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triode at the termination of the signal. Germanium triodes which cannot support a lasting voltage increase higher than the permissible value, may break down when a d.c. circuit with inductive load is connected. To confirm the conclusions obtained with the analysis of transition processes, the oscillograms taken in the experimental investigations are likewise shown. The curves obtained by experiments with the transition processes can also be obtained by calculation. The calculation method is described in general. When using the derived formulas, one can calculate the curves for the current changes in inductive circuits with triodes if the load parameter and the static characteristics of the triode in the case of various signals are known. This is briefly described. To test the application of this method in practice the transition process in the connection of the P4-triode to the excitation circuit of a 3D-7.5/30 generator was calculated. The comparison of the curve obtained in the experiment with that obtained earlier was satisfactory. There are 8 figures and 4 Soviet references.

Card 3/4

Transition Processes in D.C.-Control Circuits Fed From
Semiconductor Triodes 67425
SOV/105-59-12-12/23

ASSOCIATION: TsNIL elektricheskoy obrabotki materialov AN SSSR (Central
Scientific Research Laboratory for Electric Treatment of
Materials of the AS USSR) +

SUBMITTED: March 23, 1959

Card 4/4

PHASE I BOOK EXPLOITATION

S07/5186

Akademiya nauk SSSR. Tsentral'naya nauchno-issledovatel'skaya laboratoriya elektricheskoy obrabotki materialov Akademya

Problemy elektricheskoy obrabotki materialov (Problems of Electrical Machining of Materials). Moscow, Izd-vo AN SSSR
1960. 247 p. Errata slip inserted. 4,200 copies printed.
(Series: ITs: Trudy)

Sponsoring Agency: Akademiya nauk SSSR. Resp. Ed.: B. R. Tech. Ed.: S. P. Golub.

PURPOSE: This collection of articles is intended for scientists

and technicians concerned with the investigation of new ways of applying electrical energy.

COVERAGE: The book contains articles on studies carried out by the staff of the General'naya nauchno-issledovatel'skaya

Problems of the Electrical (Cont.)

S07/5186

Laboratorii elektricheskoy obrabotki materialov Akademii nauk SSSR (FANIL-ELEMCH) (Central Scientific Research Laboratory for the Electrical Machining of Materials of the AS USSR) in searching for new applications of electrical energy. The results of these studies include: the dimensional machining of dielectrics and the utilization of electric-pulsed discharges in carrying out certain analytical reactions; new information on processes occurring on electrodes and in the interelectrode space during short pulses; and some new data on the technological processes in metal machining by electric current pulses. Much attention is paid to the analysis of the operation of power-supply sources used in the electrical machining and arc welding of metals. No personalities are mentioned. References accompany most of the articles.

Zolotykh, B. N. and A. I. Kruglov. Thermal Processes on Electrode Surfaces During Electric-Spark Machining of Metals 65

Zolotykh, B. N. and A. I. Kruglov. Methods and Results of Studies on the Channel Potentials of a Low-Voltage Pulse Discharge 77

Mogilevskiy, I. Z. (Deceased). Structural Changes in Iron and Steel After Electric-Spark Machining of Their Surfaces by Graphites 85

Mogilevskiy, I. Z. (Deceased), and Ya. L. Kinstskiy. Study of the Physicochemical Changes in the Surface Layers of Steels and Alloys After Electric-Spark Machining in Kerosene 93

Kapoznak, G. M. and Ye. I. Orkina. Analysis of Excitation Dynamics of Welding Generators Supplied by Semiconductor Amplifiers 115

115 6

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"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

KASPRZHAK, G.M., kand.tekhn.nauk; SIDORKOV, V.B., kand.tekhn.nauk

Adjusting the voltage of rectifiers by using voltageadding trans-
formers. Vest.elektrprom. 31 no.3:12-19 Mr '60. (MIRA 13:6)
(Electric current rectifiers)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

S/775/62/002/000/011/011

AUTHORS: Kasprzhak, G. M., Rabinovich, I. Ya., Sidorkov, V. B.

TITLE: New rectifier circuits for arc welding.

SOURCE: Avtomatizatsiya protsessov mashinostroyeniya. t. 2: Goryachaya obrabotka metallov. Moscow, Izd-vo. AN SSSR, 1962, 246-265.

TEXT: The paper surveys various types of rectifier circuits for manual and automatic welding (WG) with reference to the anticipated general adoption of semiconductor-type rectifiers. Analysis of typical WG-rectifier circuits: The external V-I characteristics of rectifiers used for manual arc WG with coated electrode, automatic flux welding, and gas-shielded automatic and semiautomatic WG are briefly described, and the effects of the open-circuit V and the V-I slope on arc ignition and process control are discussed, including the transient problems occurring in self-regulating systems, especially with flat or rising characteristics.

Fundamental principles of rectifier-circuitry selection and development: The TsNILEKTRON of the State Committee of the Council of Ministers, USSR, for Automation and Machine Building has established the following fundamental principles for the development of new WG-rectifier circuits: (1) They must be applicable universally for the above-mentioned types of WG; (2) to minimize the power installed

Card 1/3

New Rectifier circuits for arc welding.

S/775/62/002/000/011/011

and the number of semiconductor (SC) valves, the external V-I characteristic must be gently descending, and an elevated open-circuit voltage (60-70 v) is to be provided by special arc-ignition devices; power fractioning is to be accomplished by booster-transformers, with a suitable stabilizing choke in the rectified-current line. One of the resulting WG rectifiers is shown in a full-page circuit diagram and is described in detail. Details of the booster-transformer circuitry, intended for symmetrical voltage regulation, are shown pictorially. The arrangement affords 20 steps of voltage regulation (2 figures), with a saving of 30-50% of active materials, an 8-12% increase in efficiency, and a power factor of 0.8-0.85, as compared with circuits in which saturation chokes in the a.c. circuit are used. Details of the arc-ignition transformer-rectifier complex are explained. Oscillograms are shown to illustrate the improvement in current control achieved. It is shown how the circuitry employed improves the response to sudden changes in arc length. Universal BCK- (VSK-) type WG rectifiers: The criteria developed in the foregoing chapter were translated at the TsNILELEKTROM into the VSK-type 150-a, 300-a, and 500-a universal rectifiers. A design analysis is provided, with especial emphasis on the features specified in the criterial chapter. The characteristics of the three rectifiers are tabulated. An experimental prototype of the VSK-150-III rectifier was built in 1958 and subjected to tests which showed (2 full-page graphs) that: (1) The external characteristic remains absolutely hard (flat), since the total equivalent resistance of the

Card 2/3

New Rectifier circuits for arc welding.

S/775/62/002/000/011/011

rectifier remains practically unvaried; (2) a slight increase in a/v slope occurs in the circuit with two parallel valve blocks, which is attributed to a nonlinearity of the internal resistance of the valves; (3) the efficiency with two valve blocks rises from 67 to 72% in the nominal regime (150 a, 23 v) and with practically unchanged power factor (0.82); (4) the test data confirm the design assumptions. Test data are summarized in a table. Oscillograms illustrate the process. The experimental prototype was followed by experimental batches of VSK-150 and VSK-300 issued by the TsNILELEKTROM; since 1961 VSK-300 rectifiers have been mass-produced by the Dnepropetrovsk plant of mining-automation equipment. Conclusions are stated on the particular features of the VSK-type rectifier which afford it excellent arc-ignition, applicability in a wide range of welding jobs, stability of operation, and conservation of active materials and power. There are 11 figures, 2 tables, and 5 Russian-language Soviet references.

ASSOCIATION: None given.

Card 3/3

KASPRZHAK, G.M.

Operating conditions and static characteristics of welding rectifiers.
Avtom.svar. 18 no.1:16-22 Ja '65. (MIRA 18:3)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut.

KASPRZHAK, G.M.

Selecting the basic elements of welding rectifiers by their
preheating conditions. Avtom. svar. 18 no.8:37-43 Ag '65.

(MIRA 18:11)

1. Vsesoyuznyy zaochnyy politekhnicheskiy institut.
Submitted December 17, 1964.

ADAMCZAK, Teobald; KASPRZYCKA, Irena; MACIEJCZYK, Stanislaw; SADOWSKI, Jan;
ZAREBA, Janusz

Effects of experimental application of silicic acid in animals.
Polaki tygod. lek. 15 no. 18:659-664 2 My '60.

1. Z II Kliniki Chirurgicznej A.M. w Warszawie; kierownik: prof.
dr.med. Jan Moseakowski i z Zakladu Anatomii Patologicznej Szpitala
Miejskiego nr 4 w Warszawie; kierownik: prof. dr. med. Janina
Dabrowska.

(SILICA toxicol.)

ADAMCZAK, Teobald; KASPRZYCKA, Irena; MACIEJCZYK, Stanislaw; SADOWSKI, Jan

Clinical studies on the use of silicones in surgery. Polski tygod.
lek. 16 no.28:1061-1065 10 Jl '61.

1. Z II Kliniki Chirurgicznej A.M. w Warszawie; kierownik Kliniki:
prof. dr med. Jan Mossakowski.

(SILICONES ther)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2

KASPRZYCKI, Andrzej (Plock); KLOSOWSKI, Zygmunt (Plock)

Work organization on the construction grounds of the Combine in
Plock. Przegl budowl i bud mieszk 34 no.4/5:250-255 Ap-My
'62.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030006-2"

S/081/62/000/024/053/073
B166/B186

AUTHORS: Błasieński, Henryk, Kasprzycki, Józef, Serwiński, Mieczysław

TITLE: Power consumption and mixing efficiency for radial turbine stirrers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962, 489, abstract 24I75 (Zesz. nauk. Politechn. Łódzka, no. 42, 1961, 81 - 102 [Pol.; summary in Eng.])

TEXT: Power consumption on agitating wine and must with turbine stirrers having 6 radial blades was determined experimentally with vat diameters of D of 300, 400 and 500 mm. In some tests the vats were partitioned. The height of the layer of liquid in the vats was equal to D in all the tests. The turbine diameter was $d = D/3.25$. The distance between the turbine and the vat bottom was $y = d$. Re_S varied between 2410 and 150,800. Fluid viscosity μ (a certain amount of sugar being added) was 1.77 - 5.61 cp, and stirrer speed n was 95 - 504 r.p.m. It was found that for vats without partitions $Lm = 9.22 Re_S^{-0.206}$ (where $Lm = N/d^5n^3\rho$, N is the power expended on agitation, ρ is the fluid density, $Re_S = d^2n\rho/\mu$) is valid in the range Card 1/2

Power consumption and ...

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$2.0 \cdot 10^3 \leq Re_S \leq 1.2 \cdot 10^5$; for vats with partitions $Lm = 5.6$. The mixing efficiency is stated to have been determined from the rate at which lumps of sugar dissolved in the wine and must. Mixing efficiency was proved to be higher in a vat without partitions than in a vat with partitions; moreover, in the first case, the power consumption on mixing diminishes with increase in Re_S , whilst in the second case it first of all rises slightly and then reaches an almost constant value at $Re_S = 10^4$. [Abstracter's note: Complete translation.]

Card 2/2

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